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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/520,850	01/11/2005	John L. Glasper	124-1101	2666
23117 759	90 09/28/2006	EXAMINER		
	NDERHYE, PC	KO, TONY		
901 NORTH GLEBE ROAD, 11TH FLOOR ARLINGTON, VA 22203			ART UNIT	PAPER NUMBER
,			2878	
			DATE MAILED: 09/28/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary    Examiner			Application No.	Applicant(s)			
Tony Ko  The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provisions of 37 CFR 1.764(b). In a overal, however, may a reply the billing fled offers 50x (6) MONTHS from the mailing date of this communication.  HING period for reply is specified above, the marmine study period cause this application to become MAINONDED (58 U.S.C.§ 130).  Any reply received by the Office later than three months after the mailing date of this communication.  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filled, may reduce any seared patter them adjustment. See 37 CFR 1.704(b).  Status  1)	Office Action Summary		10/520,850	GLASPER ET AL.			
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A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ③ MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after \$1% (b) MONTH\$ from the mailing date of this communication.  - If INO period for reply is specified above, he maximum statistory period will apply and will expire \$1% (b) MONTH\$ from the mailing date of this communication.  - If INO period for reply is specified above, he maximum statistory period will apply and will expire \$1% (b) MONTH\$ from the mailing date of this communication.  - If INO period for reply is specified above, he maximum statistory period will apply and will expire \$1% (b) MONTH\$ from the mailing date of this communication, even if timely flied, may reduce any carried patent term adjustment. See 37 CFR 1.704(b).  - Status  1)			_	•			
WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be variable under the provisions of 3 OFER 1.136(s). In one overal, however, may a reply be timely filled after SIX (8) MONTHS from the mailing date of this communication.  If NO period for reply is placed above, the mailing date of this communication. Prailure to reply within the set or actended period for reply visitin the mailing date of this communication, even if timely filed, may reduce any searned patient term adjustment. Sea 37 CFR 1.794(s).  Status  1)	Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
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2a)  This action is FINAL. 2b)  This action is non-final.  3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under  Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4)  Claim(s) 1-24 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.  5)  Claim(s) 1-3 and 12-14 is/are rejected. 7)  Claim(s) 1-3 and 12-14 is/are rejected to . 8)  Claim(s) 1-3 and 12-14 is/are objected to . 8)  Claim(s) 1-3 and 12-14 is/are objected to . 8)  Claim(s) 1-3 and 12-14 is/are rejected. 7)  The specification is objected to by the Examiner. 10)  The drawing(s) filed on 11 January 2005 is/are: a)  accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1.  Certified copies of the priority documents have been received in Application No 3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).	Status			•			
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* See the attached detailed Office action for a list of the certified copies not received	·						
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Attachment(s)							
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)  Paper No(s)/Mail Date.	1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date 1/11/05, 4/06/05.  5) Notice of Informal Patent Application 6) Other:	3) 🛛 Inform	nation Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Notice of Informal F				

Application/Control Number: 10/520,850 Page 2

Art Unit: 2878

### **DETAILED ACTION**

## Claim Objections

1. Claims 4-11, 15-24 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim can not be dependent on multiple dependent claims. See MPEP § 608.01(n). Accordingly, the claims have not been further treated on the merits.

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-3 and 12-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Applicant Admitted Prior Art.
- 3. Regarding claims 1 and 12, AAPA discloses (Fig. 1) method of making and the apparatus of a photodetector circuit including a photodiode, the circuit comprising a semiconductor substrate (2), a first electrically insulating layer (4) on the substrate, a first window in the first insulating layer, a guard ring (8) in the substrate within the first window (6), a second electrically insulating layer (10), on the first insulating layer, a second window in the second insulating layer within the first window (the opening

between insulating layers 4), and an epitaxial layer (12) on the substrate forming an active region of the photodiode, the epitaxial layer being located within the second window (gap between layers 10) such that the edges of the epitaxial layer are spaced from the inner periphery of the first window.

- 4. Regarding claims 2 and 13, AAPA discloses the window is such that the guard ring is overlapped by the edges of the epitaxial layer.
- 5. Regarding claim 3 and 14, AAPA discloses (Fig. 1) the second window (the gap between 10 is between the gap created by layer 4) is formed in the second insulating layer so as to leave a portion of the second insulating layer with the inner periphery of the first window which ensures, during growth of the epitaxial layer, that the edges of the epitaxial layer are spaced from the inner periphery of the first window.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tony Ko whose telephone number is 571-272-1926.

The examiner can normally be reached on Monday-Friday 7:30 - 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Georgia Epps can be reached on 571-272-2328. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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TKO

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